

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P866106

Luminaire Tested: PRLX-2001-M-940-25L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866106  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-940-25L-L-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

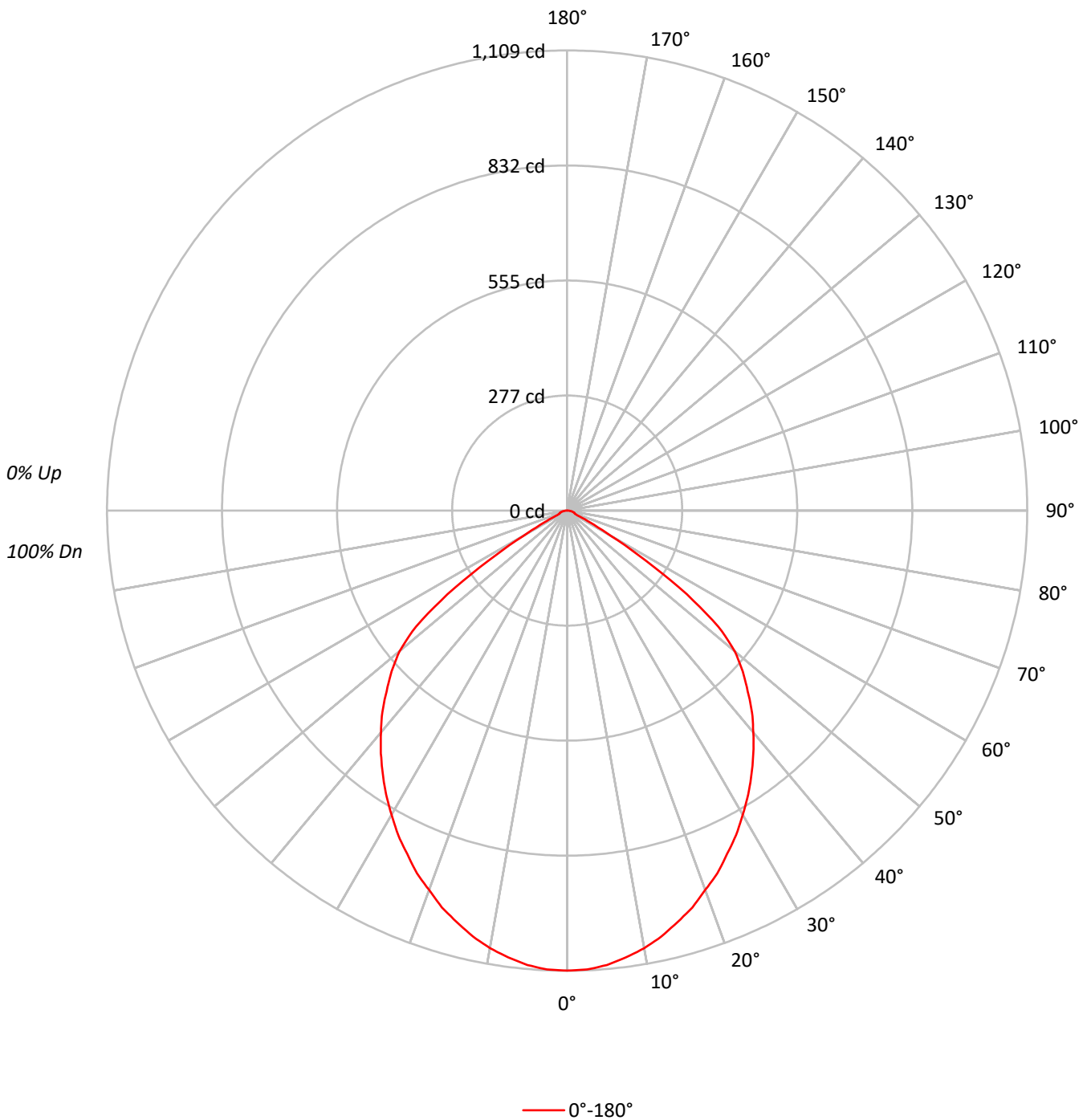
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2141.6 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	85		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	71	70
4	89	79	72	66	87	78	71	66	76	70	65		73	68	64		71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51		61	55	51		60	54	50	49
7	72	60	52	46	70	59	52	46	57	51	46		56	50	46		55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	42		52	46	41		51	45	41	39
9	63	51	43	38	61	50	43	38	49	42	38		48	42	38		47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34		44	39	34		44	38	34	33

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	9408
5°	9364
10°	9224
15°	9021
20°	8786
25°	8545
30°	8295
35°	8026
40°	7731
45°	7384
50°	6967
55°	5215
60°	2059
65°	562
70°	481
75°	518
80°	562
85°	555

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7384 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.0	4.9
10°-20°	289.4	13.5
20°-30°	420.7	19.6
30°-40°	484.5	22.6
40°-50°	474.8	22.2
50°-60°	301.6	14.1
60°-70°	43.9	2.1
70°-80°	16.6	0.8
80°-90°	6.2	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	814.0	38.0
0°-40°	1298.5	60.6
0°-60°	2074.9	96.9
0°-90°	2141.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2141.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1109	
5°	1099	104
15°	1027	289
25°	913	421
35°	775	484
45°	615	475
55°	352	302
65°	28	44
75°	16	17
85°	6	6
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1108.6
2.5°	1107.2
5°	1099.3
7.5°	1086.3
10°	1070.5
12.5°	1051.2
15°	1026.8
17.5°	1003.1
20°	972.9
22.5°	946.3
25°	912.6
27.5°	881.7
30°	846.5
32.5°	812.1
35°	774.7
37.5°	737.4
40°	697.9
42.5°	659.8
45°	615.3
47.5°	573.7
50°	527.7
52.5°	459.5
55°	352.5
57.5°	224.7
60°	121.3
62.5°	61.0
65°	28.0
67.5°	20.1
70°	19.4
72.5°	18.0
75°	15.8
77.5°	13.6
80°	11.5
82.5°	8.6
85°	5.7
87.5°	2.9
90°	0.0



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.09	16.50	15.46	16.81	17.12	15.09	16.50	15.46	16.81	17.12
	3H	15.02	16.26	15.40	16.59	16.95	15.02	16.26	15.40	16.59	16.95
	4H	15.00	16.15	15.40	16.50	16.88	15.00	16.15	15.40	16.50	16.88
	6H	14.98	16.03	15.39	16.40	16.79	14.98	16.03	15.39	16.40	16.79
	8H	14.96	15.96	15.39	16.35	16.75	14.96	15.96	15.39	16.35	16.75
	12H	14.94	15.90	15.38	16.28	16.71	14.94	15.90	15.38	16.28	16.71
4H	2H	14.93	16.08	15.34	16.43	16.81	14.93	16.08	15.34	16.43	16.81
	3H	14.90	15.82	15.31	16.22	16.63	14.90	15.82	15.31	16.22	16.63
	4H	14.88	15.71	15.32	16.12	16.57	14.88	15.71	15.32	16.12	16.57
	6H	14.90	15.60	15.36	16.05	16.52	14.90	15.60	15.36	16.05	16.52
	8H	14.88	15.55	15.35	15.99	16.46	14.88	15.55	15.35	15.99	16.46
	12H	14.88	15.46	15.36	15.95	16.42	14.88	15.46	15.36	15.95	16.42
8H	4H	14.79	15.45	15.26	15.90	16.37	14.79	15.45	15.26	15.90	16.37
	6H	14.81	15.36	15.31	15.86	16.34	14.81	15.36	15.31	15.86	16.34
	8H	14.81	15.31	15.33	15.83	16.32	14.81	15.31	15.33	15.83	16.32
	12H	14.83	15.28	15.34	15.77	16.34	14.83	15.28	15.34	15.77	16.34
12H	4H	14.75	15.34	15.24	15.83	16.30	14.75	15.34	15.24	15.83	16.30
	6H	14.76	15.26	15.28	15.78	16.27	14.76	15.26	15.28	15.78	16.27
	8H	14.79	15.24	15.31	15.74	16.30	14.79	15.24	15.31	15.74	16.30